

## MATERIAL SAFETY DATA SHEET

## I. GENERAL INFORMATION

ENFORCER PRODUCTS P. O. BOX 1060 CARTERSVILLE, GA. 30120	MANUFACTURER'S PHONE NUMBER: (770) 386-0801 24 HOUR EMERGENCY NUMBER: 1-800-255-3924	HAZARD RATINGS:  HEALTH_1_ REACTIVITY_0_ FLAMMABILITY_2_ PERSONAL PROTECTION_B_
PRODUCT NAME: ENFORCER ®ORGANIC CITRUS DRAIN & DISPOSER CLEANER (Formula Code: P16300)		EPA REG. NO.: N/A
PREPARED BY: S. SHELKOP		DATE: MARCH 22, 2001

## II. INGREDIENTS

PRINCIPAL COMPONENTS	CAS NUMBER	PERCENT	OSHA PEL	ACGIH TLV	RTECS#	HAZARD
2-BUTOXY ETHANOL	111-76-2	<5.00	TWA 25ppm (SKIN)	TWA 25ppm (SKIN)	KJ8575000	COMBUSTIBLE TOXIC
* d-LIMONENE	5989-27-5	<5.00	N/A	N/A	GW6360000	COMBUSTIBLE
MEA (ETHANOLAMINE)	141-43-5	<3.00	TWA 3ppm	3ppm IN AIR	KJ5775000	CORROSIVE
* NOTE: d-LIMONENE IS REPORTED IN EPA TSCA INVENTORY. GLYCOL ETHERS MAY BE SUBJECT TO SARA TITLE III, SECTION 313 REPORTING FOR MANUFACTURERS ONLY. ALSO CONTAINS SURFACTANTS.						

## III. PHYSICAL DATA

BOILING POINT: N/D	SPECIFIC GRAVITY: 1.0017	VAPOR PRESSURE (mm Hg.): N/A
PERCENT VOLATILE BY VOLUME: >90	VAPOR DENSITY: N/A	EVAPORATION RATE (Butyl Acetate = 1): N/A
pH: 11.5-12.3	REFRACTIVE INDEX: 1.364	
SOLUBILITY IN WATER: COMPLETE	APPEARANCE & ODOR: ORANGE, CLEAR LIQUID WITH CITRUS FRAGRANCE.	

## IV. FIRE &amp; EXPLOSION DATA

FLASHPOINT (Method used): 124° F	AUTOIGNITION TEMPERATURE: N/A	FLAMMABLE LIMITS: N/A
LEL: N/A	UEL: N/A	EXTINGUISHING MEDIA: WATER, FOAM, CO <sub>2</sub> .
SPECIAL FIRE FIGHTING PROCEDURES:	SOLUTIONS AND MISTS ARE IRRITATING. FIREFIGHTERS SHOULD WEAR SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE CLOTHING WHEN FIGHTING FIRES THAT INVOLVE THIS PRODUCT.	
UNUSUAL FIRE & EXPLOSION HAZARDS:	COMBUSTIBLE! KEEP AWAY FROM OPEN FLAME, SPARKS OR HEAT. AVOID CONTACT WITH OTHER FLAMMABLE/COMBUSTIBLE CHEMICALS.	

## V. REACTIVITY HAZARD DATA

STABILITY: <input checked="" type="checkbox"/> STABLE <input type="checkbox"/> UNSTABLE	CONDITIONS TO AVOID: HEAT, OPEN FLAME, SPARK AND OXIDIZING AGENTS.
INCOMPATABILITY (Materials to avoid): DO NOT MIX WITH ACIDS OR OXIDIZERS. AVOID HEAT, OPEN FLAME, SPARK AND OXIDIZING AGENTS.	
HAZARDOUS POLYMERIZATION: <input type="checkbox"/> WILL OCCUR <input checked="" type="checkbox"/> WILL NOT OCCUR	
HAZARDOUS DECOMPOSITION PRODUCTS: CARBON DIOXIDE, CARBON MONOXIDE, AND OTHER UNIDENTIFIED ORGANIC COMPOUNDS.	

VI. HEALTH HAZARD DATA				
PRIMARY ROUTES OF ENTRY:    INHALATION  X     INGESTION  X     SKIN ABSORPTION  X     EYE  X     NOT HAZARDOUS				
ACUTE EFFECTS OF OVEREXPOSURE:				
INGESTION:	INGESTION MAY PRODUCE TISSUE DAMAGE OF THE GASTROINTESTINAL TRACT.			
SKIN CONTACT:	SOLUTIONS AND MISTS ARE IRRITATING. THIS PRODUCT MAY IRRITATE SKIN UPON CONTACT. ITCHING, SCALING, REDDENING, OR CHARACTERIZES SKIN INFLAMMATION OCCASIONALLY, BLISTERING.			
INHALATION:	INHALATION OF MISTS MAY PRODUCE SEVERE NASAL AND RESPIRATORY IRRITATION. OVEREXPOSURE BY INHALATION MAY CAUSE PERMANENT DAMAGE.			
EYE CONTACT:	STRONGLY IRRITATING. THIS PRODUCT MAY IRRITATE EYES UPON CONTACT. INFLAMMATION OF THE EYES IS CHARACTERIZED BY REDNESS, WATERING, AND ITCHING. EYE CONTACT MAY PRODUCE SEVERE IRRITATION AND BLINDNESS UNLESS IMMEDIATELY FLUSHED.			
CHRONIC EFFECTS OF OVEREXPOSURE:    REPEATED OR PROLONGED EXPOSURE OF SKIN CAN PRODUCE CHRONIC DERMATITIS CHARACTERIZED BY REDNESS, SCALING, AND BLISTERING. REPEATED EXPOSURE TO SPRAY MISTS MAY LEAD TO CHRONIC EYE INFLAMMATION, CHRONIC RESPIRATORY TRACT IRRITATION OR LUNG DAMAGE. ANIMAL STUDIES INDICATE A POTENTIAL FOR LIVER, KIDNEY, OR RED BLOOD CELL DAMAGE. RELEVANCE OF THESE STUDIES OR EXPOSURE LEVELS WHICH MIGHT PRODUCE THESE EFFECTS IN HUMANS HAS NOT BEEN ESTABLISHED.				
CARCINOGENICITY:	NTP? N/A	IARC? N/A	OSHA REGULATED? N/A	
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:    INGREDIENTS IN THIS PRODUCT MAY AGGRAVATE EXISTING SKIN, EYE, OR RESPIRATORY DISORDERS.				
EMERGENCY FIRST AID PROCEDURES:				
INGESTION:	GIVE LARGE QUANTITIES OF WATER.. DO NOT INDUCE VOMITING. DO NOT ADMINISTER FLUIDS TO AN UNCONSCIOUS PERSON. GET MEDICAL ATTENTION IMMEDIATELY.			
SKIN CONTACT:	IMMEDIATELY FLUSH CONTAMINATED SKIN WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. GET MEDICAL ATTENTION, IF IRRITATION DEVELOPS.			
INHALATION:	REMOVE VICTIM TO FRESH AIR. IF BREATHING DOES NOT RETURN TO NORMAL WITHIN A FEW MINUTES, GET MEDICAL ATTENTION IMMEDIATELY.			
EYE CONTACT:	IMMEDIATELY FLUSH EYES WITH WATER FOR AT LEAST 15 MINUTES, LIFTING UPPER AND LOWER LIDS PERIODICALLY. GET MEDICAL ATTENTION IMMEDIATELY.			

VII. CONTROL AND PROTECTIVE MEASURES	
EYE PROTECTION:	SAFETY GLASSES OR GOGGLES RECOMMENDED ESPECIALLY IF CONTACT LENSES ARE WORN.
RESPIRATORY PROTECTION (specify):	NOT REQUIRED FOR INTENDED USE. IF VENTILATION IS INADEQUATE, WEAR A PROPERLY-FITTING MSHA OR OSHA-APPROVED RESPIRATOR.
SKIN PROTECTION:	CHEMICAL RESISTANT GLOVES (NEOPRENE, NITRILE, LATEX) TO REDUCE SKIN CONTACT.
VENTILATION:	GENERAL EXHAUST WHEN USED IN ENCLOSED AREA.
OTHER PROTECTION:	NOT REQUIRED.

VIII. SPECIAL PRECAUTIONS	
HANDLING AND STORING PROCEDURES:	COMBUSTIBLE. STORE AND USE AWAY FROM HEAT, SPARKS, OPEN FLAME, OR ANY SOURCE OF IGNITION. DO NOT USE IMMEDIATELY BEFORE OR AFTER AN ACIDIC DRAIN CLEANER. KEEP CLOSED WHEN NOT IN USE. KEEP PRODUCT AWAY FROM SKIN AND EYES. CLOTHING OR SHOES THAT BECOME CONTAMINATED WITH SUBSTANCE SHOULD BE REMOVED PROMPTLY AND NOT REWORN UNTIL THOROUGHLY CLEANED.
RELEASE OR SPILL PROCEDURES:	IMMEDIATELY ELIMINATE ALL FLAME, IGNITION AND HIGH-HEAT SOURCES. ABSORB SPILL ON INERT ABSORBENT MATERIAL (E.G. ZEP-O-ZORB). PICK UP AND PLACE RESIDUE IN A SUITABLE WASTE CONTAINER OR, IF PERMITTED, FLUSH TO SEWER. THOROUGHLY FLUSH AREA WITH WATER.
WASTE DISPOSAL METHOD:	LIQUID WASTES ARE NOT PERMITTED IN LANDFILLS. THIS PRODUCT IS NOT CONSIDERED A HAZARDOUS WASTE UNDER RCRA. UNUSABLE LIQUID MAY BE ABSORBED ON AN INERT ABSORBENT MATERIAL (E.G. ZEP-O-ZORB), DRUMMED, AND TAKEN TO A CHEMICAL OR INDUSTRIAL LANDFILL. IN SOME AREAS, DISPOSAL BY FLUSHING INTO A SANITARY SEWER WITH PLENTY OF WATER MAY BE PERMISSIBLE. CONSULT LOCAL, STATE, FEDERAL AGENCIES FOR PROPER DISPOSAL METHOD IN YOUR AREA.
OTHER PRECAUTIONS:	KEEP THIS AND ALL CHEMICALS OUT OF REACH OF CHILDREN AND PETS.

IX. ADDITIONAL INFORMATION

PROPER DOT SHIPPING NAME: CONSUMER COMMODITY, ORM-D

BIODEGRADABILITY: N/A

EMPTY CONTAINER HANDLING: WARNING! EMPTIED CONTAINER RETAINS PRODUCT RESIDUE. OBSERVE ALL PRECAUTIONS EVEN AFTER CONTAINER IS EMPTIED. KEEP EMPTIED CONTAINER CLOSED TIGHTLY.

ADDITIONAL MANUFACTURER WARNINGS:

TSCA STATUS: EXEMPT

RECOMMENDED HAZARD SUMMARY (DEFINED BY 29 CFR 1910.1200):  
IMMEDIATE HEALTH HAZARD.

NOTE: "NI " MEANS NOT INDICATED.

OTHER PRECAUTIONS AND COMMENTS: THE INFORMATION AND STATEMENTS IN THIS MATERIAL SAFETY DATA SHEET ARE BELIEVED TO ACCURATELY REFLECT THE SCIENTIFIC EVIDENCE USED IN MAKING THE HAZARD DETERMINATION, BUT IS NOT TO BE CONSTRUED AS A WARRANTY OR REPRESENTATION FOR WHICH WE ASSUME LEGAL RESPONSIBILITY. ADDITIONAL INFORMATION MAY BE NECESSARY OR DESIRABLE DEPENDING ON PARTICULAR, EXCEPTIONAL OR VARIABLE CONDITIONS OR CIRCUMSTANCES OF USE OR STORAGE OR BECAUSE OF LOCALLY APPLICABLE LAWS OR GOVERNMENT REGULATIONS. THEREFORE, YOU SHOULD USE THIS INFORMATION ONLY AS A SUPPLEMENT TO OTHER INFORMATION AVAILABLE TO YOU AND MUST MAKE INDEPENDENT DETERMINATIONS OF THE SUITABILITY OF THE INFORMATION FOR YOUR PARTICULAR CIRCUMSTANCES OR CONDITIONS AND OF THE COMPLETENESS OF THE INFORMATION AVAILABLE FROM ALL SOURCES TO ASSURE BOTH THE PROPER USE OF ALL THE MATERIAL DESCRIBED HEREIN AND THE SAFETY AND HEALTH OF EMPLOYEES.

THIS INFORMATION COMPLIES WITH OSHA HAZARD COMMUNICATION STANDARD 29 CFR 1910.1200.

\*\*\*\*\* END OF REPORT \*\*\*\*\*